

TECHNIQUES FOR PERMITTING ACCESS ACROSS A  
CONTEXT BARRIER IN A SMALL FOOTPRINT DEVICE  
USING GLOBAL DATA STRUCTURES

Abstract of the Disclosure

5 A small footprint device can securely run multiple  
programs from unrelated vendors by the inclusion of a  
context barrier isolating the execution of the programs.  
The context barrier performs security checks to see that  
principal and object are within the same namespace or  
memory space and to see that a requested action is  
appropriate for an object to be operated upon. Each  
program or set of programs runs in a separate context.  
10 Access from one program to another program across the  
context barrier can be achieved under controlled  
circumstances by using a global data structure.